

www.elsevier.com/locate/epsl

Contents Volume 177

REE-bearing sulfide in Bishunpur (LL3.1), a highly unequilibrated ordinary chondrite	
P. Kong, E. Deloule and H. Palme	1
Regular Letters	
Astronomical forcing of sedimentary cycles in the middle to late Miocene continental Calatayud Basin (NE Spain)	
H. Abdul Aziz, F. Hilgen, W. Krijgsman, E. Sanz and J.P. Calvo	9
Chronology of Quaternary glaciations in East Africa	
T.M. Shanahan and M. Zreda	23
Paleointensity experiments using alternating field demagnetization	
JP. Valet and E. Herrero-Bervera	43
Intermediate magnetite formation during dehydration of goethite	
Ö. Özdemir and D.J. Dunlop	59
In situ X-ray diffraction studies of dense hydrous magnesium silicates at mantle conditions	
S.R. Shieh, Hk. Mao, R.J. Hemley and L.C. Ming	69
Garnet fractionation in a hydrous magma ocean and the origin of Al-depleted komatiites: melting experiments of hydrous pyrolite with REEs at high pressure	
T. Inoue, R.P. Rapp, J. Zhang, T. Gasparik, D.J. Weidner and T. Irifune	81
Non-transform offsets along the Mid-Atlantic Ridge south of the Azores (38°N-34°N): ultramafic exposures and hosting of hydrothermal vents	
E. Gracia, J.L. Charlou, J. Radford-Knoery and L.M. Parson	89
Copper and copper(II) porphyrins of the Cretaceous-Tertiary boundary at Stevns Klint (Denmark)	
P.I. Premović, N.D. Nikolić, I.R. Tonsa, M.S. Pavlović, M.P. Premović and D.T. Dulanović	105
Woodleigh, Carnarvon Basin, Western Australia: a new 120 km diameter impact structure	
A.J. Mory, R.P. Iasky, A.Y. Glikson and F. Pirajno	119
Erratum	
Erratum to "Chaotic dynamics and fractals in magmatic interaction processes: a different approach to the interpretation of mafic microgranular enclaves"	
D. Perugini and G. Poli	129
Regular Letters	
A dynamic origin for the global asymmetry of lunar mare basalts	
S. Zhong, E.M. Parmentier and M.T. Zuber	13
Plate boundary deformation in South Island, New Zealand, is related to inherited lithospheric structure	
R. Sutherland, F. Davey and J. Beavan	14
Significance of palaeomagnetic data from the oceanic Poya Terrane, New Caledonia, for SW Pacific tectonic models	
J.R. Ali and J.C. Aitchison	15.
Fault finiteness and initiation of dynamic shear instability	
C. Dascalu, I.R. Ionescu and M. Campillo	16
Shear wave anisotropy beneath the Taiwan orogen	
RJ. Rau, WT. Liang, H. Kao and BS. Huang	17
Inferred pore pressures at the Costa Rica subduction zone: implications for dewatering processes	
D.M. Saffer, E.A. Silver, A.T. Fisher, H. Tobin and K. Moran	19
High resolution Holocene monsoon record from the eastern Arabian Sea	
A Sarkar R Ramesh R L K Somavajulu R Agnihotri A LT Jull and G S Rurr	20

Short fluctuations in Antarctic isotope records: a link with cold events in the North Atlantic? A. Mazaud, F. Vimeux and J. Jouzel 219 Osmium behavior in estuaries: the Lena River example S. Levasseur, V. Rachold, J.-L. Birck and C.J. Allègre 227 Native titanium inclusions in the coesite eclogites from Dabieshan, China J. Chen, J. Li and J. Wu 237 Interaction of small mantle plumes with the spinel-perovskite phase boundary: implications for chemical mixing G. Marquart and H. Schmeling 241 The Iceland plume in space and time: a Sr-Nd-Pb-Hf study of the North Atlantic rifted margin P.D. Kempton, J.G. Fitton, A.D. Saunders, G.M. Nowell, R.N. Taylor, B.S. Hardarson and G. Pearson 255 Constraints on mantle plumes from the helium isotopic composition of basalts from the British Tertiary Igneous Province F.M. Stuart, R.M. Ellam, P.J. Harrop, J.G. Fitton and B.R. Bell 273 Re-Os fractionation in eclogites and blueschists and the implications for recycling of oceanic crust into the mantle H. Becker 287 Re-Os isotopic systematics of primitive lavas from the Lassen region of the Cascade arc, California L.E. Borg, A.D. Brandon, M.A. Clynne and R.J. Walker 301 ¹⁹⁰Pt-¹⁸⁶Os and ¹⁸⁷Re-¹⁸⁷Os systematics of abyssal peridotites A.D. Brandon, J.E. Snow, R.J. Walker, J.W. Morgan and T.D. Mock 319 Comment on "Variability of Nb/U and Th/La in 3.0 to 2.7 Ga Superior Province ocean plateau basalts: implications for the timing of continental growth and lithosphere recycling" B.S. Kamber and K.D. Collerson 337 Reply to the Comment by Kamber and Collerson on "Variability of Nb/U and Th/La in 3.0 to 2.7 Ga Superior Province ocean plateau basalts: implications for the timing of continental growth and lithosphere recycling" R. Kerrich, D. Wyman, P. Hollings and A. Polat 341 Author Index Volume 177 347

